Figure 1

Figure 2A

```
1    MALTFALLVA LLVLSCKSSC SVGCDLPQTH SLGSRRTLML LAQMRKISLF SCLKDRHDFG
61   FPQEEFGNQF QKAETIPVLH EMIQQIFNLF STKDSSAAWD ETLLDKFYTE LYQQLNDLEA
121  CVIQGVGVTE TPLMKEDSIL AVRKYFQRIT LYLKEKKYSP CAWEVVRAEI MRSFSLSTNL
181  QESLRSKE
```

Figure 2B

```
   1 gagaacctgg agcctaaggt ttaggctcac ccatttcaac cagtctagca gcatctgcaa
  61 catctacaat ggccttgacc tttgctttac tggtggccct cctggtgctc agctgcaagt
 121 caagctgctc tgtgggctgt gatctgcctc aaacccacag cctgggtagc aggaggacct
 181 tgatgctcct ggcacagatg aggagaatct ctcttttctc ctgcttgaag acagacatg
 241 actttggatt tccccaggag gagtttggca accagttcca aaaggctgaa accatccctg
 301 tcctccatga gatgatccag cagatcttca atctcttcag cacaaaggac tcatctgctg
 361 cttgggatga gaccctccta gacaaattct acactgaact ctaccagcag ctgaatgacc
 421 tggaagcctg tgtgatacag ggggtggggg tgacagagac tcccctgatg aaggaggact
 481 ccattctggc tgtgaggaaa tacttccaaa gaatcactct ctatctgaaa gagaagaaat
 541 acagcccttg tgcctgggag gttgtcagag cagaaatcat gagatctttt tctttgtcaa
 601 caaacttgca agaaagttta agaagtaagg aatgaaaact ggttcaacat ggaaatgatt
 661 ttcattgatt cgtatgccag ctcacctttt tatgatctgc catttcaaag actcatgttt
 721 ctgctatgac catgacacga tttaaatctt ttcaaatgtt tttaggagta ttaatcaaca
 781 ttgtattcag ctcttaaggc actagtccct tacagaggac catgctgact gatccattat
 841 ctatttaaat atttttaaaa tattatttat ttaactattt ataaacaac ttatttttgt
 901 tcatattatg tcatgtgcac ctttgcacag tggttaatgt aataaatgt gttctttgta
 961 tttggtaaat ttattttgtg ttgttcattg aacttttgct atggaacttt tgtacttgtt
1021 tattctttaa aatgaaattc caagcctaat tgtgcaacct gattacagaa taactggtac
1081 acttcatttg tccatcaata ttatattcaa gatataagta aaaataaact ttctgtaaac
1141 ca
```

Figure 3A

```
  1 MTNKCLLQIA LLLCFSTTAL SMSYNLLGFL QRSSNFQCQK LLWQLNGRLE YCLKDRMNFD
 61 IPEEIKQLQQ FQKEDAALTI YEMLQNIFAI FRQDSSSTGW NETIVENLLA NVYHQINHLK
121 TVLEEKLEKE DFTRGKLMSS LHLKRYYGRI LHYLKAKEYS HCAWTIVRVE ILRNFYFINR
181 LTGYLRN
```

Figure 3B

```
  1 atgaccaaca agtgtctcct ccaaattgct ctcctgttgt gcttctccac tacagctctt
 61 tccatgagct acaacttgct tggattccta caaagaagca gcaattttca gtgtcagaag
121 ctcctgtggc aattgaatgg gaggcttgaa tattgcctca aggacaggat gaactttgac
181 atccctgagg agattaagca gctgcagcag ttccagaagg aggacgccgc attgaccatc
241 tatgagatgc tccagaacat ctttgctatt ttcagacaag attcatctag cactggctgg
301 aatgagacta ttgttgagaa cctcctggct aatgtctatc atcagataaa ccatctgaag
361 acagtcctgg aagaaaaact ggagaaagaa gattttacca ggggaaaact catgagcagt
421 ctgcacctga aaagatatta tgggaggatt ctgcattacc tgaaggccaa ggagtacagt
481 cactgtgcct ggaccatagt cagagtggaa atcctaagga acttttactt cattaacaga
541 cttacaggtt acctccgaaa ctgaagatct cctagcctgt ccctctggga ctggacaatt
601 gcttcaagca ttcttcaacc agcagatgct gtttaagtga ctgatggcta atgtactgca
661 aatgaaagga cactagaaga ttttgaaatt tttattaaat tatgagttat ttttatttat
721 ttaaatttta ttttggaaaa taaattattt ttggtgc
```

Figure 4A

```
  1 MKYTSYILAF QLCIVLGSLG CYCQDPYVKE AENLKKYFNA GHSDVADNGT LFLGILKNWK
 61 EESDRKIMQS QIVSFYFKLF KNFKDDQSIQ KSVETIKEDM NVKFFNSNKK KRDDFEKLTN
121 YSVTDLNVQR KAIHELIQVM AELSPAAKTG KRKRSQMLFR GRRASQ
```

Figure 4B

```
   1 tgaagatcag ctattagaag agaaagatca gttaagtcct ttggacctga tcagcttgat
  61 acaagaacta ctgatttcaa cttctttggc ttaattctct cggaaacgat gaaatataca
 121 agttatatct tggctttttca gctctgcatc gtttttgggtt ctcttggctg ttactgccag
 181 gacccatatg taaaagaagc agaaaacctt aagaaatatt ttaatgcagg tcattcagat
 241 gtagcggata atggaactct tttcttaggc attttgaaga attggaaaga ggagagtgac
 301 agaaaaataa tgcagagcca aattgtctcc ttttacttca aacttttttaa aaactttaaa
 361 gatgaccaga gcatccaaaa gagtgtggag accatcaagg aagacatgaa tgtcaagttt
 421 ttcaatagca acaaaaagaa acgagatgac ttcgaaaagc tgactaatta ttcggtaact
 481 gacttgaatg tccaacgcaa agcaatacat gaactcatcc aagtgatggc tgaactgtcg
 541 ccagcagcta aaacagggaa gcgaaaaagg agtcagatgc tgtttcaagg tcgaagagca
 601 tcccagtaat ggttgtcctg cctgcaatat ttgaatttta aatctaaatc tatttattaa
 661 tatttaacat tatttatatg gggaatatat ttttagactc atcaatcaaa taagtatttta
 721 taatagcaac ttttgtgtaa tgaaaatgaa tatctattaa tatatgtatt atttataatt
 781 cctatatcct gtgactgtct cacttaatcc tttgtttttct gactaattag gcaaggctat
 841 gtgattacaa ggctttatct caggggccaa ctaggcagcc aacctaagca agatcccatg
 901 ggttgtgtgt ttatttcact tgatgataca atgaacactt ataagtgaag tgatactatc
 961 cagttactgc cggtttgaaa atatgcctgc aatctgagcc agtgctttaa tggcatgtca
1021 gacagaactt gaatgtgtca ggtgaccctg atgaaaacat agcatctcag gagatttcat
1081 gcctggtgct tccaaatatt gttgacaact gtgactgtac ccaaatggaa agtaactcat
1141 ttgttaaaat tatcaatatc taatatatat gaataaagtg taagttcaca act
```